AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings and versions of claims in this application.

- 1.(Original) Use of γ -glutamyl-peptide in the preparation of a medicament or nutritional formulation for humans or animals for the treatment, testing for or prophylaxis of a disease or condition which is characterized by increased bone resorption.
- 2. (Original) Method of administering to a human or animal who can benefit from an effective amount of γ-glutamyl-peptide.
- 3. (Original) The method as claimed in claim 2 wherein the human or animal is in need of γ -glutamylpeptide.
- 4. (Currently Amended) The method as claimed in claims 2 and 3 wherein bone resorption is inhibited.
- 5. (Original) Method of treating, testing for or preventing a disease or condition which is characterized by increased bone resorption comprising administering to a human or animal in need thereof an effective amount of γ -glutamyl-peptide.
- 6. (Original) Use of γ-glutamyl-peptide in the dietary management of increased bone resorption.
- 7.(Currently Amended) The use-or-method of any-preceeding-claim $\underline{6}$ wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamyl-alkenyl-cysteine sulfoxide, or any combination thereof.
- 8. (Currently Amended) The use or method of claim ∓1 wherein the γ-glutamyl-alkenyl-cysteine sulfoxide is γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide.
- 9. (Currently Amended) The use or method of any one of claims 1 3, 4, 5, 7, or 8 wherein the disease or condition which is characterized by increased bone resorption, is Paget's disease, tumor-induced bone disease or osteoporosis or any combination thereof.

- 10. (Original) A nutritional composition comprising γ -glutamyl-peptide and a nutritionally acceptable carrier.
- 11. (Original) The nutritional composition of claim 10 wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamy-alkenyl-cysteine sulfoxide or a combination thereof.
- 12. (Original) The nutritional composition of claim 11 wherein the γ-glutamyl-alkenyl-cysteine sulfoxide is γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide.
- 13. (Currently Amended) The nutritional composition of any one of claims 10 to 12 further comprising
- (a) a calcium source,
- (b) at least one energy source selected from the group consisting of carbohydrate, fat and nitrogen sources, and optionally
- (c) Vitamin D.
- 14. (Original) The nutritional composition of claim 13, wherein the calcium source (a) is an organic calcium salt.
- 15. (Currently Amended) The nutritional composition of claim 13-or-14, wherein the carbohydrate source of component (b) is selected from the group consisting of maltodextrins, starch, lactose, glucose, sucrose, fructose, xylit, sorbit, and mixtures thereof.
- 16. (Currently Amended) The nutritional composition of any one of claims 13-to-15, wherein the fat source of component (b) is selected from the group consisting of omega-6 polyunsaturated fatty acid sources, omega-3 polyunsaturated fatty acid sources, mono-unsaturated fatty acid sources, C₆-C₁₂- fatty acid sources, and mixtures thereof.
- 17. (Currently Amended) The nutritional composition of any-one of claims 13-te-16, wherein the nitrogen source of component (b) is selected from the group consisting of soy bean derived proteins; milk proteins, protein hydrolysates, a mixture of essential amino acids and arginine, and mixtures thereof.
- 18. (Currently Amended) The nutritional composition of any one of claims 13 to 17, wherein the carbohydrate source provides for 30 to 70 %, the nitrogen source for 5 to 40 %, and the fat source for 0.01 to 5 % of the total energy supply of the composition.

- 19. (Currently Amended) The nutritional composition of any one of claims 13-to-18 comprising from 3 to 25 % by weight of component (a), from 5 to 50 % by weight of component (b) and from 1 to 95 % by weight of component (c), based on the total weight of the nutritional composition.
- 20. (Currently Amended) The nutritional composition of any one of claims 10-to-19 further comprising 0.2 to 10 % by weight of other nutritionally acceptable components chosen from vitamins, minerals, trace elements, fibers, flavors, preservatives, colorants, sweeteners and emulsifiers.
- 21. (Currently Amended) The nutritional composition of any one of claims 10 to 20 in the form of a dietary supplement providing from 50 to 1500 kcal/day, or in the form of an animal feed supplement.
- 22. (Currently Amended) The nutritional composition of any one of claims 10 to 21 in liquid form.
- 23. (Currently-Amended) The nutritional composition of any one of claims 10 to 21 in granulate or powder form.
- 24. (Original) A pharmaceutical composition in single unit dose form, comprising γ -glutamyl-peptide and a pharmaceutically acceptable carrier.
- 25. (Original) The pharmaceutical composition of claim 24 wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamy-alkenyl-cysteine sulfoxide or a combination thereof.
- 26. (Original) The pharmaceutical composition of claim 25 wherein the γ-glutamyl-alkenyl-cysteine sulfoxide is γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide.
- 27. (Currently Amended) The pharmaceutical composition of any one of claims 24 to 26 for enteral administration in the form of a dragée, tablet, capsule, sachet or suppository.
- 28. (Currently Amended) The pharmaceutical composition of any one of claims 24 to 27 in the form of a veterinary composition.
- 29. (Original) γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide obtained by fractionation of an hydrophilic, ethanolic extract of Allium, which fractionation comprises
- (a) obtaining an hydrophilic, ethanolic extract of Allium cepa, hereinafter referred to as fraction A, by using adsorption column chromatography,

- (b) separating saccharides from fraction A by using reversed-phase medium pressure liquid chromatography (RP-MPLC) to obtain fraction A1
- (c) further separating saccharides from fraction A1 by NP-MPLC using chloroform methanol water 6.4:5:1 as mobile phase, to obtain fraction A1-4,
- (d) further fractionation by semi-preparative reversed-phase HPLC (SP-RP-HPLC) using as solvent an isocratic water/acetonitrile system buffered with e.g. 0.00625% formic acid to obtain fraction A1-4C.
- 30. (Original) The γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide of claim 29 wherein said Allium comprises Allium cepa, Allium ascalonicum, Allium ampeloprasum, Allium porrum, Allium schoenoprasum, Allium ursinum, Allium sativum or Allium fistulosum.
- 31. (Original) The γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide of claim 30 wherein said allium comprises Allium ascalonicum, Allium portum, Allium cepa Allium ursinum.
- 32. (Original) The γ -L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide of claim 31 wherein said allium comprises allium cepa.
- 33. (Original) Process for producing a veterinary composition for the treatment or prophylaxis of a disease or condition in animal which is characterized by increased bone resorption or for the management of increased bone resorption in animal comprising homogenizing a mixture of one or more carriers that are physiologically acceptable to animals and an effective amount of a γ -glutamyl-peptide.
- 34. (Original) The process of claim 30 wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamy-alkenyl-cysteine sulfoxide or a combination thereof.
- 35. (Original) The process of claim 34 wherein the γ -glutamyl-alkenyl-cysteine sulfoxide is γ -L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide.
- 36. (Currently Amended) The use or method-as claimed in claims 1—9-wherein γ-glutamyl-peptide inhibits dose-dependently the resorption activity of osteoclasts
- 37. (Currently Amended) The use er-method-as claimed in claims 1-9-wherein the minimal effective dose is about 2 mM.

- 38. (Currently Amended) The nutritional or pharmaceutical-composition as claimed in claims 10-28 wherein γ-glutamyl-peptide inhibits dose-dependently the resorption activity of osteoclasts
- 39. (Currently Amended) The nutritional or pharmaceutical composition as claimed in claim 10-28 wherein the minimal effective dose is about 2 mM.
- 40. (Currently Amended) The nutritional or pharmaceutical-composition as claimed in claim-s 10-28 wherein the dose is at least 2 mM.
- 41. (New)The use of claim 1 wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamy-alkenyl-cysteine sulfoxide, or any combination thereof.
- 42. (New)The method of claim 2 wherein the γ -glutamyl-petide is γ -glutamyl-alkyl-cysteine sulfoxide or γ -glutamy-alkenyl-cysteine sulfoxide, or any combination thereof.
- 43. (New) The method of claim 2 wherein the γ-glutamyl-alkenyl-cysteine sulfoxide is γ-L-glutamyl-trans-S-1-propenyl-L-cysteine sulfoxide.
- 44.(New) The method of claim 5 wherein the disease or condition which is characterized by increased bone resorption, is Paget's disease, tumor-induced bone disease or osteoporosis or any combination thereof.
- 45. (New) The nutritional or pharmaceutical composition as claimed in claim 24 wherein γ-glutamylpeptide inhibits dose-dependently the resorption activity of osteoclasts
- 46. (New) The nutritional or pharmaceutical composition as claimed in claim 24 wherein the minimal effective dose is about 2 mM.
- 47. (New) The nutritional or pharmaceutical composition as claimed in claim 24wherein the dose is at least 2 mM.